

# IBPSA project 2Task 3 Monthly Meeting

09/10/2024

# In person meeting discussion

There will be several breakout sessions, some done jointly with other tasks (i.e. Task 2).

- Survey will be shared with attendance, willingness to present, idea sharing
- Possible discussion points for breakout sessions
  - What are key test cases that are currently missing?
  - How to speed up Test case development process?
  - Outreach to increase Test case submissions
  - Others?

# Pseudo-code for controller testcase stress test implementation

- User defines parameters:
  - Control inputs to be stress tested
  - Scenario to run (Heating, cooling, custom)
  - Run baseline as comparison
  - Enable plot options
  - Forecast check
- Get min and max for all inputs
- Generate random sequence of inputs for chosen scenario at “t\_step” intervals using hypercubic sampling
- If model crashes during scenario show breaking sequence
- If model does not crash plot stress test results and comparison with baseline if enabled
- Additional checks:
  - Check that forecasts values align with measurements